

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: genunn@mmm.com
Subject: [248] AA0XZ fox results (fwd)
Message-ID: <199511180540.AA200623227@pigseye.mmm.com>

Hi all,

Here is an amended version of my log. Somehow I turned one contact with Bart WB6HQB into two, with his call correct in neither. Bart's sig and fist were great, I just blew this one.

I also had Norm K2NF's name wrong.

Here is the corrected version of the log, with many apologies to Bart and Norm:

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>
> Time    Call      gave    received    Name      QTH
> 0205    AA1IK
> 0210    W1HUE      549      249
>         K2NF      459              Norm
>         AB5TZ
> 0218    W6ZH      569      429
> 0223    W5HNS      569      589
>         NA5N              589      Paul      NM
>         AB5OU      229      339      Tim
> 0227    AC6IY      229      449      Greg
>         AA0YU      559      449      Allen     CO
> 0233    KC7AKW      569      599      John      Phoenix, AZ
>         W5RMZ      559      469      Dave      Tucson, AZ
>         N6ULU      579      569      Stan      CA
>         AA7QY      569      579      Roger     AZ
> 0240    WW7Y ??
>         WB6Q ??
>         NU6U      229
>         AB5QE      569      459
> 0256    WB6HQB      569      579      Bart      Torrance CA  QR0?
> 0307    WB5QMP      549      569
> 0318    N7WRQ      449      569
> 0324    AB7JX      229c     339      Russ      AZ
>         KB0PBQ/7  599              Don      UT          QR0?
>         KI0G              579      Bob      CO
> 0950    W03B      229      119      Bob
> 0956    W5XE      559      579      Ray
>
```

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Greg Nunn
Senior Systems Engineer
3M Electronic Products Division
(314) 886-1325 (work)
(314) 446-0944 (home)
genunn@mmm.com

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [244] Another QRP-Ler in QST
Message-ID: <Pine.SUN.3.90.951117202011.9794C-100000@vortex>

Hi all,

Look on page 14 of the Dec 95 QST.

There's Jon, EA2SN!

Looking good Jon. Even Carol recognized you!

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
...ku7y@sage.dri.edu.....Sun Valley, Nevada....
.....ARRL.....NorCal #330.....NRA LIFE.....

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>
Subject: [218] Anyone in Flint, MI?
Message-ID: <27733.816632690@safety.ics.uci.edu>

Howdy -

Looking for someone in Flint who could help me find a spot to throw a wire up into a tree at 0700 UTC (2 am?) next week some morning so that I can put the Michigan capital on a WAS net. I am in CA, don't know if there are safe parks or rec areas in the city. Hey, if you can spare your driveway for an hour and there is a tree nearby...and you wouldn't mind a very early morning visit....

Clark
WA3JPG

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: Marshall Emm <75230.1405@compuserve.com>
Subject: [230] ARRL 1996 Handbook
Message-ID: <951117211915_75230.1405_HHB63-1@CompuServe.COM>

>Page 194 of December QST has a vendor selling the 1996 Handbook for \$25.95
>plus \$3.00 shipping. Not a bad deal. A lot better than the \$38.00 list.

Just tried to order one, and Duane says there's a \$10 typo in the ad. He's been around a long time and so I don't have any particular problem with that (I know it happens all too frequently).

Anyhow, correct price is \$35.95 POST-PAID in the US. Still a pretty good deal.

Check or m/o to--
Duane Heise, AA6EE
Callbook Distributor
16832 Whirlwind/Q12
Ramona, CA 92065
619-789-3674

Usual disclaimers....

73/72
Marshall
AA0XI/VK5FN

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: k7yha@ix.netcom.com (Richard H. Arland)
Subject: [242] ARRL Handbook Prices
Message-ID: <199511180314.TAA24562@ix7.ix.netcom.com>

Just for the record. I have been working the a publisher since 1991 on my three QRP volumes. He is a very small time publisher even though he has over 50 titles in the radio hobby press side of his business.

The ARRL is the bane of every small time publisher. Their overhead is high, but they make up for this in their marketing and mass production of QUALITY books. In short, they can outproduce and undercut anybody else in the marketplace. It makes for good business.

I was talking to my publisher last March at the SWL Winterfest in Lansdale, PA. The topic of the ARRL came up and he started cringing, again. We discussed the handbook and he told me that he could not do the same size, quality and layout that the ARRL does and sell it for less than \$75 a copy!

Now, lets all quick crying and pay our money for an outstanding book. Its part of the cost of playing the game. Besides, who needs a new handbook every year, anyway. One new handbook every 5 years is all you need to keep abreast of changes.

I would suggest, that if you are REALLY interested in keeping up with the latest technology to subscribe to Communications Quarterly, QEX and such.

73 rich K7YHA

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: [231] Building time for Oak Hill Four Bander
Message-ID: <01BAB503.D41CDA60@tntech.edu>

If any one can help me compile the following information it would be greatly appreciated:

If you have built the Oak Hills 400, 4-Bander-

- 1) How long did it take you to build the PCBs?
- 2) How long did it take you do wire up the four boards?
- 3) How long to align?
- 4) Install radio in cabinet? (Approximately)

Please email me directly at jmg@tntech.edu

thanks

73
Jeff, AC4HF

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: richards@nylink.org
Subject: [239] Collins and QRP
Message-ID: <9511180009.AA09649@genesis.nylink.org>

Hi Folks,

For the Long Time Hams on the list a question out of curiosity.

I have a Collins KWM-2A, and by adjusting the Mic Gain control to reduce plate current (which is being metered at that time) I get power readings of less than 5W with PC of about 100ma. The recommended is about 230ma.

The question is, all other things being equal, can I reduce the PC to QRP levels and expect this to operate correctly, and people hear me on SSB or CW. Manual recommends ALC settings of S7 for SSB and S3? for CW once tuned up correctly etc.

Just curious, any info would be appreciated and informative,

72 de Rick WZ2T NNY

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: ruswhite@netwest.com (Russell W. White)
Subject: [241] contest clubs
Message-ID: <199511180318.UAA08146@saguaro.netwest.com>

I sent out the following message to Billy Lunt, the contest manager.
it was sent out Friday evening.

Hello Billy

I have a question concerning "Club Participation" in the SweepStakes (and probably in other ARRL operating events).

I am a member of QRP-L, a mail list on the internet concerned mainly with QRP operations (antennas, rigs, stories, and just about anything else as long as it touches on QRP).

Would it be legal or acceptable for those of us who operated SS to put QRP-L as the club we operated with? It should be noted that people on this list (qrp-1@lehigh.edu) are spread across the United States and Canada.

If you email a reply to > qrp-1@lehigh.edu < , it will probably be read by all those it will affect.

Thanks, 73 de Russ AB7JX

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: K5ERJ@aol.com
Subject: [235] Corel Draw Users
Message-ID: <951117174826_109438985@mail04.mail.aol.com>

Pse excuse the use of the bandwidth for this query.

Back when we had the thread going concerning entries for the QRP-L logo contest, I had correspondence from at least two list members who seemed to be well versed in the use of Corel Draw 4.

I would very much appreciate these two individuals contacting me directly, as I have some questions and no answers about CD4.

Tnx es 73 or 72 (whichever fits)

Ed K5ERJ

"There is no substitute for common sense!"

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: GREGOIRE@VALLEY.NET (ERNEST GREGOIRE)
Subject: [206] CQ QRP+ OWNERS
Message-ID: <199511171606.LAA11171@dartvax.dartmouth.edu>

Hello Gang,

Last night I called CQ on 40 meters for 15 minutes, no answer, (yes the station is intact and working well). It was crowded, so I moved to 80 meters for more elbow room. I called CQ for 45 minutes got one reply from a very fast, but sloppy, bug owner.

Here we are chasing a fox to promote QRP usage on the air and crowding one band. There is a lot of room on 80. There is some noise there, but I did hear qso's in progress, so the band is open to somewhere, right?

WHADAYASAY gang, how-bout using your Index labs QRP+ on 80 meters. It is a multi-band radio ya-no!! 3560 is the place to be, C U L on 80.

[illegible]

Ernie Gregoire
RR 1 Box 221
Canaan, NH. 03741

New England QRP Club, information
available on request by sending me a
S.A.S.E. or via E-mail.

e-mail : GREGOIRE@VALLEY.NET
packet : AA1IK@WA1WOK.FN43FE.NH.USA

From qrp-l@lehigh.edu Sat Nov 18 14:47:00 1995
From: V\$BCIESLAK@china.qgraph.com
Subject: [203] Final SS95-cw qrp tally
Message-ID: <01HXQTWMJ0Z600Y754@hub.qgraph.com>

Here's the final tally for SS95-CW QRP for the group. I've included a few late entries and a made a correction. If your not competing with another club jot 'QRP-L' down in the club affiliation field of the summary sheet. I am assuming that all these entries are qrp unless otherwise noted.

72 es cu on Fone----Brian, AE9K

| CA11 | QS0 's | SEC 's | Score |
|--------|--------|--------|---------|
| K0FRP | 690 | 73 | 100,780 |
| WB8RUQ | 460 | 67 | 61,640 |
| W03B | 363 | 69 | 50,094 |
| KD7S | 308 | 66 | 39,864 |
| KA2GSL | 249 | 68 | 33,864 |
| WA3NNA | 252 | 66 | 33,264 |
| AE9K | 237 | 67 | 31,624 |
| WA3YON | 222 | 61 | 27,084 |
| AD4ZE | 211 | 63 | 26,586 |
| K5F0 | 199 | 66 | 26,268 |
| W5TEH | 199 | 65 | 25,820 |
| AB5WB | 182 | 63 | 22,932 |
| W5RMZ | 194 | 59 | 22,892 |
| K06KA | 178 | 61 | 21,716 |

| | | | |
|--------|-----|----|--------|
| KE2WB | 146 | 65 | 18,980 |
| KD4HZ | 141 | 59 | 16,638 |
| AB5OU | 150 | 55 | 16,500 |
| WW7Y | 105 | 67 | 14,070 |
| W9ZSJ | 113 | 47 | 10,662 |
| KC7NEV | 82 | 39 | 6,560 |
| AA7YU | 81 | 39 | 6,318 |
| WB4IUY | 41 | 36 | 2,952 |
| W4QO | 20 | 15 | 600 |
| AB7JX | 18 | 15 | 520 |
| N3MHW | 19 | 11 | 418 |
| VA3JFF | 11 | 10 | 220 |
| KA5T | 10 | 8 | 160 |
| KK5HA | 5 | 4 | 20 |

CHECKLOGS

| | | | |
|---------|-----|----|-------------------------|
| NS80 | 237 | 70 | 33,180 OPERATED CLASS A |
| KH6CP/1 | | | 70 k MORE DATA NEEDED |

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
 From: "Timothy J. Pettibone" <tpettibo@NMSU.Edu>
 Subject: [234] Fixing SS Entry
 Message-ID: <Pine.A32.3.91.951117153921.58392C-1000000@hector>

If you, as I did, rushed your SS entry in with a "Club Affiliation" of "QRP-L" then do as I did and send a note to:

BLUNT@ARRL.ORG

and ask Billy Lunt to remove that entry. It worked for me.

Tim
 AB5OU

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
 From: Paul Harden <pharden@aoc.nrao.edu>
 Subject: [245] Fox in NM
 Message-ID: <199511180450.VAA11857@zia.aoc.nrao.edu>

Was away from the old terminal thurs-fri., so a bit late. But worked the fox thursday nite in NM. Greg had a nice signal. Even after a couple of QSO's, went down a few KHz, and he was still holding strong

with a 569-579 all nite. Little fading to his signal this direction.

I was also impressed with Greg's style and efficiency. He matched everyone's code speed well and knocked 'em out like an old contest pro or something. When I read his fox report, was amazed to find out Greg is a relatively new ham. He sounded like a seasoned old fart to me. Great job with the fox, Greg.

Paul NA5N

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: "Bill Kelsey - N8ET - Kanga US" <kanga@brutus.bright.net>
Subject: [225] Ft. Wayne, IN Hamfest
Message-ID: <199511172003.PAA12061@brutus.bright.net>

Is anyone from the QRP-L list going to be at the Ft. Wayne Indiana Hamfest this weekend??

I will have a table (#K106) and will be conducting the QRP forum Sunday at 10:15 AM in the White Room

Pat (Buckeye Electronics) will also be with me at the table.

If you are there - stop by and at least say hello.

73

73 - Bill Kelsey - N8ET
Kanga US
kanga@bright.net
419-423-4604
<http://qrp.cc.nd.edu/kanga/>

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: W3HMS@aol.com
Subject: [249] Fwd: QRPer of the Year
Message-ID: <951118004656_109813232@mail06.mail.aol.com>

Forwarded message:

Subj: QRPer of the Year
From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: ruswhite@netwest.com (Russell W. White)
Subject: [233] got'im

Message-ID: <199511172224.PAA03751@saguaro.netwest.com>

Caught the fox in Phoenix, AZ tomorrow. Well, it's tonight here but it's tomorrow in the log.

His RST told me that I have some chirp, which is the same thing that chuck sent me. I have an Argonaut 505 and the OHR wattmeter. When my output is at 1 watt (even a bit less) I have some chirp. I feel that I should have about 2-3 watts. Am I dreaming or are there any ideas out there.

72 de Russ AB7JX

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995

From: elly@epix.net

Subject: [210] HANDBOOK & WOUFF HONG

Message-ID: <Pine.SUN.3.91.951117112957.20048A-1000000@peach.epix.net>

I HAVE A 1949 HANDBOOK SHOWS \$2.00. IT ALSO HAS A WOOD MAST ARTICLE WHICH ALSO APPEARS IN MY 1990 HANDBOOK.

MY QST DATA BASE (NOT COMPLETE) SHOWS "THE WOUFF HONG" JAN. 1982 PAGE 9. I DON'T HAVE THAT ISSUE. MAYBE SOMEONE CAN REPORT ON WHAT IT SAYS? KE3IK HANK.

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995

From: k7yha@ix.netcom.com (Richard H. Arland)

Subject: [243] HF Vertical Antennas

Message-ID: <199511180321.TAA22448@ix5.ix.netcom.com>

Recently Nick, KF2PH, wrote about "no radial vertical antennas". Assuming that he is talking about a 1/4 wave vertical....there ain't no such animal as a "no radial vertical antenna". It defies the laws of physics.

You MUST have the ground radial/RF counterpoise system to make the antenna work efficiently. Most hams want to put the vertical up and lay out one or two radials and that the end of the job. They are amazed that they have a flat SWR across all bands 40-10 meters and about 100 kHz of useable spectrum on 80 meters. All this means is that the antenna is not radiating efficiently due to extremely low radiation resistance. Radials/counterpoise raise the radiation resistance so the RF currents have a place to go.

I am REALLY suspicious of the MFJ "no radials" vertical. In the pictures I have seen it resembles the Hi-Q antennas of the late 1960s and early 1970s. These had a ceramic capacity hat/coil arrangement that stuck out at 90 degrees from the vertical radiator. They worked, but not all that well (I had two in the Azores and my Hustler 5BTV beat them into the dirt!)

73 rich

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: "Nick Franco" <NICKF@rcadmin.nov.add.bn1.gov>
Subject: [200] HF Verticals?
Message-ID: <MAILQUEUE-101.951117094324.352@rcadmin.nov.add.bn1.gov>

I've been on this list for some time now and have heard a lot of comments about the new GAP Titan.. Sounds like a great antenna. They advertise low noise. Is this really true?

I haven't heard anyone ever mention the MFJ 1798 10 band no radial vertical. Does anyone have one??? For \$249. in the AES catalog, it looks like a good deal. I just never heard any practical reports of experiences with it. I don't really care about 6 meters personally but the overall antenna sounds like they put a lot of thought into the design. I like the idea of the "no radial" approach. I want to mount whatever vertical I get on the chimney or roof without wires draped all over the place (my XYL is nothing like Mike's - or even Ernie's for that matter - hi hi).

So what's the story gang. How do you all feel about no radial verticals?

72,
Nick - KF2PH

_____.
Nicholas J. Franco Systems/Network Support
RHIC Project Building 1005, UPTON, N.Y. 11973-5000
tel: (516) 282-5467 fax: (516) 282-3674
Ham Call: KF2PH QRP-NE # 349

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [216] I heard the FOX, (apologies Jeff)

Message-ID: <n1395512629.27680@msmailgw1.arlut.utexas.edu>

Well,
all this discussion about verticals and my experiences of mine "hearing long"
made me anxious to check out what a "close in" (Mo. to TX.) fox might sound
like last nite.

What a decision! There was good programming for a change on TV, I had to work
late, and by the time supper was over, the Novice segment time had just
passed.

On to 7040+. Wow, as I tuned the 450 to use its better receiver, and turned
down its transmitter to 3 Watts, as soon as I hit 7040.12 or something, there
was the FOX at 5,7-8, 9 on the Titan antenna. I give him a call---where did
he go? Who are all these strong signals? Hey! There's someone calling me!
AC4..... Hey its Jeff AC4HF from QRP-L, loud and clear....ooops who turned on
all these other siganals!!

Jeff, I am sorry, I would hear you loudly, then rather than your signal going
down, others would come up to your strength and on top of you. I have a
single 500 Hz filter in the first IF of the Kwood 450, and 2.5 kHz following.
Your signal came up in strength to 8-9 at the second over or so, and then THE
FROGS were there!!! I think it was only a digital station, and not all that
strong, but the digital tones played havoc with the multiple CW signals, and
it was just too much. The combination of digital and multitudes of CW signals
sounded like bull frogs croaking.

Does anyone have advice on how to effectively use the Notch filter of the 450?
I could not make mine help in this case. Do I need a more narrow CW filter
and one in both IF's? I am more of a SSB QRP person, so I bought the 450
with that set of filters for that reason. Would an audio DSP processor
following such a set up do me some good? Advice welcomed!

The one thing owners of vertical antennas have to take is QRM from all sides,
and there was a frying noise QRN last night that only got worse the later the
evening.

From qrp-l@lehigh.edu Sat Nov 18 14:47:00 1995
From: BOB.LIESENFELD@hamlink.mn.org (BOB LIESENFELD)
Subject: [240] MATCHING
Message-ID: <816634822.AA04282@hamlink.mn.org>

Hi,
I must agree with Tom N100Q, a transistor is *not* matched to the
filter input. C-E capacitance may change however at lower drive levels
which I suppose could change filter tuning.

Interesting subject....

---NoSnail v1.17

HAM>link< RBBS - Serving the Amateur Radio Community Since 1983

- 612/HAM-0000 v.34

Ham Radio Spoken Here!!

- 612/HAM-1010 v.32b

Reply to sender @ hamlink.mn.org

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995

From: KE3FL@delphi.com

Subject: [226] North N.Y. Section

Message-ID: <01HXR6I9KG9U99KGFF@delphi.com>

Correction, I looked at it again, because of a question, and sure enough the first time NNY can be used is in November Sweeps, 1996! See QST December 1995 page 15, and/or QST November 1995 page 96. Sorry about any confusion!

73 de KE3FL

: (

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995

From: richards@nylink.org

Subject: [238] North N.Y. Section

Message-ID: <9511180009.AA09639@genesis.nylink.org>

KE3FL writes:

> Correction, I looked at it again, because of a question, and sure enough
> the first time NNY can be used is in November Sweeps, 1996! See QST December 1995 page 15, and/or QST November 1995 page 96. Sorry about any confusion!

> 73 de KE3FL

> : (

Not quite, NNY can be used in any contest requiring ARRL sections as part of the exchange from 1 Jan 96 on, such as Field Day.

However, the first contest after 1 Jan 96 to use ARRL sections as SCORING multipliers is SS in Nov. 96 (i.e. qso's times sections times whatever = score)

72 de Rick WZ2T NNY

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: KE3FL@delphi.com
Subject: [227] North N.Y. Section Clarification #2
Message-ID: <01HXR6Y1DJWI99KGFF@delphi.com>

Sorry folks, let me quote QST.
November QST 1995, pg 97 ppg 8.5 "effective January 1, 1996, the Northern New York Section of the ARRL was created..."

December QST 1995, pg 15 League Lines ppg 5, "The new ARRL Northern New York Section becomes effective January 1, 1996... For ARRL contest purposes, section awards will be issued for the new section in contests beginning January 1. The first contest in which the new section counts as a scoring multiplier will be the 1996 November Sweepstakes"

Hope that's as clear as mud. Seems to me, well, forget it.
73 de KE3FL/Phil
:|

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: V\$BCIESLAK@china.qgraph.com
Subject: [213] 0000Ps! Don't put qrp-1 on the log
Message-ID: <01HXQX36DUJ600ZKF2@hub.qgraph.com>

A quick check back to the January QST indicates there is a 150 mile radius limit....SO I STAND CORRECTED....DON't PUT QRP-L in the Club Affiliation section....My oversight....sorry.

Brian AE9K

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: Anibal Aguirre <aaguirr@aleph.fi.uba.ar>
Subject: [246] Please unsubscribe me !!!
Message-ID: <9511180035.AA12468@aleph.fi.uba.ar>

Could the list admin please unsubscribe me from qrp-1 ?
Thanks a lot !
(I couldn't find a way to get me off the list, and sorry for the waste of

bandwith..)
anibal aguirre

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: Johnson Russ <JohnsonR@rnd2.indy.tce.com>
Subject: [209] Ref. CQ QRP+ OWNERS
Message-ID: <30ACE2C4@MSMAIL.INDY.TCE.COM>

I worked two stations last evening with my QRP+, one on 80 and one on 40.
The contact on 40 was to CA. and the fellow was running a KW and a
3Element beam! He gave me a 579 and I was running 4 watts.

Russ N9RJ QRP+ #640
Beanblossom Indiana
johnsonr@rnd2.indy.tce.com

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: V\$BCIESLAK@china.qgraph.com
Subject: [217] REL:000000Ps!
Message-ID: <01HXQZ6426PE013CMI@hub.qgraph.com>

If one or two of you have already sent in logs with QRP-1....my apologies...
in my excitement I overlooked that silly rule....If only a couple of you sent
in logs like that your probably ok...If your concerned a quick email to
Billy Lundt at ARRL totell him you know of an error on your log and you
would like to correct it would probably solve the problem...I had to do it
a few years back when I notice that I forgot to set my computer clock after
i sent the log in...

Once again my apologies....I'll just sit here quietly and take the abuse.

Brian AE9K

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: rohrwerk@netcom.com (John Seboldt)
Subject: [250] rs - 12 and miniR2
Message-ID: <199511180628.WAA21536@netcom7.netcom.com>

Bruce Robertson said:

>>One more thing: I've got a million ideas for the miniR2 board, but I'd rather not buy more than one. It seems to me with a good plug and jack system, it should be easy to swap the board into different tranceivers. What do people recommend for interconnects smaller than, e.g. bncs or rca jacks. (Since the board works up to 450 Mhz, I suppose the connections should too.)

:

72, VE3UWL <<<

Well, I built mine in a PC board box with 3 BNC's on the back, so I can plug on input filters, preamps, quadrature networks galore. A somewhat more elegant solution might be the mixed contact DB series connectors available from Mouser. Check their catalog -- you can get a DB-37 (I think) size connector with 3 coaxial contacts and several other DC lines, or one with 6 coaxial contacts. You buy the big contacts separately (50 or 75 ohm) and insert them.

: John Seboldt rohrwerk@netcom.com / CW: It don't mean a thing
: K0JD... Minneapolis, MN / if it ain't got that swing!
: My R2/T2 station described in / Di dah, di dah, di dah, di dah...
> <http://www.lehigh.edu/lists/qrp-l/k0jd/index.html> <

From qrp-l@lehigh.edu Sat Nov 18 14:47:00 1995
From: Bill Acito 17-Nov-1995 1504 <acito@asdg.UNET.dec.com>
Subject: [228] Stupid Vertical Questions
Message-ID: <9511172047.AA10812@us1rmc.bb.dec.com>

The recent windstorms here in NE has left my Butternut a bit tilted. I wanted to get a new mounting pipe and drive it in a bit deeper.

There is a 2 1/2' section of pipe that I believe came with the antenna. It has a split and a hose clamp at the top. The antenna bottom, 1 1/4" dia, slides into it.

I picked up a length of 1 1/4" aluminum conduit, and it doesn't fit. I haven't gotten in with a "good" ruler, but does anyone know if there is something off the shelf (conduit, pipe), that will take this?

b

. - I own my own words -

Bill Acito

acito@asdg.enet.dec.com

|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS ... qrp-ne ... qrp-arci ... norcal ... arrl life ...

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995

From: pcalcand@sescva.esc.edu (PETER CALCANDY)

Subject: [237] SWEEPSTAKES

Message-ID: <95111719054380@sescva.esc.edu>

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Who will be working sweeps tomorrow? Anyone know how to make a digital keyer out of a soundblaster in a few minutes? How may I interface it with my ARG0 509? Please advise?

Good Lucjk

Peter N2KPY

ps

In the little village I am from, we spell the word "luck", Lucjk.

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995

From: hartonmw@ctrvax.Vanderbilt.Edu

Subject: [221] swl-30 troubleshoot sos

I am having trouble discovering my (novice) builder's mistake on an SWL-30. I'm throwing my symptoms before the wisdom of this group to see if you can help me narrow my search for the problem. Here's the deal:

Poking through the troubleshooting voltage chart with my dc voltmeter (my only piece of test equipment,) I find that both the input and output of U2 measure power supply voltage. Same for other points on the board that should be V_{in} or near V_r . I replaced the 8 volt regulator IC and have the same symptoms and voltages.

73 for now and 72 when I get the bugs out,
 Marcus AE4EX

- . - . - . - . - . - . - . - . - . - . - . - . - . - .

The Freedom Forum First Amendment Ctr. at Vanderbilt Univ.
Nashville, Tennessee

If you haven't gotten your QST yet, be sure to check out the article by Rob, WA3ULH on the lightweight 20M vertical. Nicely done, and it can easily be scaled up or down for the other bands.

72, de Roger AA7QY

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: prvalko <prvalko@Oakland.edu>
Subject: [223] Re: Anyone in Flint, MI?
Message-ID: <Pine.OSF.3.91.951117145626.28178B-100000@saturn.acs.oakland.edu>

On Fri, 17 Nov 1995, Clark Savage Turner WA3JPG wrote:

>
> Looking for someone in Flint who could help me find a spot to throw a
> wire up into a tree at 0700 UTC (2 am?) next week some morning so that
> I can put the Michigan capital on a WAS net.

Clark,

The state capital of Michigan is Lansing. Looks like I'll be in
Lansing on Monday for a meeting. Maybe we can hook up for an eyeball QS0?
Unless you really ARE going to be in Flint!

=paul=
wb8zjl

ObQRP : I have been skunked for the last 5 or six weeks fox-wise. My
turn in the barrel is coming up so I am deeply looking forward to it.

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>
Subject: [236] Re: Anyone in Flint, MI? / I mean LANSING
Message-ID: <811.816648422@safety.ics.uci.edu>

Yow! Don't know why it came out "Flint", really don't. I know better.
Try again, anyone in Lansing that can help me find a safe spot to set
up a small 2 am semi portable spot to put the MI capital on a WAS net?

Clark
WA3JPG

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: cebik@UTK.VX.UTCC.UTK.EDU
Subject: [202] Re: Archives

Message-ID: <Pine.PMDF.3.91.951117102242.543598256A-100000@utkvx.utk.edu>

On Fri, 17 Nov 1995, Robert J. Gobrick wrote:

> Chuck - does this mean you don't have a UTC time-piece? Pleeeese don't ask
> the qrp-l to help you convert UTC to TST (Texas Standard Time)... hi.
Bob,

Having lived in Texas, I can tell you are not fully informed. Nothing is merely standard in Texas. The proper abbreviation is THT, for Texas Huge Time. Every minute seemed like a week when I lived there.

-73-

LB, W4RNL

From qrp-l@lehigh.edu Sat Nov 18 14:47:00 1995

From: ashworth@plaza.ds.adp.com (Dennis Ashworth)

Subject: [212] Re: ARRL Handbook

Message-ID: <9511171638.AA21281@adphdw20>

I purchase ARRL Handbooks infrequently and I too have noticed the price increase. I have also noticed a remarkable improvement in the quality and thoroughness of the materials. I was very impressed with this year's edition (and not just because I was a contributor).

Drop in at your local college bookstore and see what students are charged for reference textbooks with half the materials of the Handbook. I think most will agree that at \$38, the ARRL Handbook is a great deal.

73's

Dennis, K7FL

Dennis H. Ashworth
Director, Quality Assurance

ashworth@plaza.ds.adp.com

ADP Dealer Services Group
2525 SW First Avenue
Portland, OR 97201-4792

Phone: (503) 402-3211
Fax: (503) 294-5292

Dennis....Ok, you and others win, I have religion now!!!! I am going to buy a new HBK ASAP, 72/73, John

```
>No one in business who wants to remain in business can sell you a book
>for 40% discount. Books have a 40% markup. I use to sell computer
>books. So the chap selling you the handbook is makeing $8 at the most.
>He still has overhead in order to be in business. When I see this
>type of e-mail... I think some (most) hams are cheap... The will spend
>thousands for a radio but to .... cheap to spend $30 on a book telling
>them how it works.
```

I understand it can be annoying to see a bunch of people trying to sweeten a deal you might already consider good. We cheapies do a slow burn everytime someone suggests it's our job to subsidize a poor businessman by overpaying. It all works out in the end.

| | |
|--------------------------------|---|
| Patrick Taber | Email: ptaber@logicraft.com |
| Principal Software Engineer | Phone: (603) 880-0300 |
| Logicraft Information Services | Fax: (603) 880-7229 |
| 22 Cotton Road | |
| Nashua N.H. 03063 | Also known as: KC1TD |

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>
Subject: [232] Re: Butternut Standpipe
Message-ID: <Pine.A32.3.91j.951117133122.113180B-100000@homer24.u.washington.edu>

I take it you want to replace the piece below the lower fiberglass insulator. Attached to the top half of this insulator is the antenna proper, along with the coax center conductor, all held together with a single stainless bolt. The lower half of this fiberglass insulator attaches to the standpipe, along with the coax braid.

The insulator is one inch in diameter. Ideally, you need a piece of 1-1/8th inch aluminum (6061?) with a one inch inside diameter. What works in a pinch is the cheap steel Radio Shack antenna mast. The insulator fits very tightly in the swaged end of the mast. From the opposite end, the steel mast can be cut to size with a hack saw. I use this setup when trailer camping and it works out quite well. Only requires drilling a hole for the single stainless bolt which holds the coax braid connection to the standpipe. This bolt also serves to hold the standpipe assembly together but on mine the insulator is solidly held by friction alone.

Hope this helps!
Stephen Lee, AB7HI
slee@u.washington.edu

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: "George C. Dorner" <gdorner@harper.cc.il.us>
Subject: [229] Re: Carl & Jerry
Message-ID: <Pine.3.87.9511171406.A12016-0100000@hp-h50.harper.cc.il.us>

Anybody else recall the neat articles John T. Frye, W9I?, Logansport, IN wrote in Popular Electronics in the late 50's/early 60's? They were mostly placed at "Parvoo University".

I lived in Frankfort, IN at the time. Our team name was (no joke!), the Frankfort Hot Dogs. Logansport's was (no joke!), the Logansport Berries. A headline in my home town paper after a basketball game once read (no

joke!) "Hot Dogs Pitchfork Berries!" I have always regarded this as the pinnacle of sports reporting. At about the same time I had my first QRP experience with a rig which appeared in Radio-TV News: "Three Watts in a Coffee Can". This was a 117L7 tube with a surplus (army, that is) tuning unit from a "horsie talkie." I still have the rig and used it on Straight Key Night a couple of years ago.

geo

| | |
|---|---|
| George C. Dorner | gdorner@harper.cc.il.us |
| Technology, Math, & Physical Science Division | CIS 70536,106 |
| William Rainey Harper College | w9zsj@ke9yq.ampr.org |
| 1200 W. Algonquin Rd. | |
| Palatine, IL 60067-739 | Sometimes you think ..Welllll.. |
| (708) 925-6445 | .. and other times you just don't know! |

On Thu, 16 Nov 1995, Jim Stafford-W4QO wrote:

>
> John Frye (can't remember call - W9I??, maybe) wrote C&J. He lived in NW
> Indiana and was bound to a wheel chair as I recall. He checked into the
> Indiana phone net when I was a kid with a DX40 on AM. WHat a hoot! All
> those big boys could barely hear me but they tried their darnedest!
>
> 73/72/jim/w4qo/ex-K9MAF,W2CJC,WA4KKE - Shelbyville, IN 1958-1960
>
>
>

From qrp-l@lehigh.edu Sat Nov 18 14:47:00 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [208] Re: Final SS95-cw qrp tally
Message-ID: <199511171616.QAA00920@chuck.dallas.sgi.com>

Brian, AE9K, recommends that everyone that is sending
in their SS scores put QRP-L as their club affiliation.

I'd like someone to call ARRL and check on this: There
is a 150M radius limit for a club. If you don't qualify
then I think there may be a disqualification rule in
effect. If you get disqualified for some reason you may
be ineligible for next years contest. So please please
be careful here gang. The ARRL Contest Committee does
not have a sense of humor for some things and I want

to be sure that this is or is not one of them.

dit dit

--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: cebik@UTKVX.UTCC.UTK.EDU
Subject: [204] Re: Gap Vertical
Message-ID: <Pine.PMDF.3.91.951117102740.543598256B-100000@utkvx.utk.edu>

On Fri, 17 Nov 1995, Jeff M. Gold wrote:

> I have been running a Gap Vertical for about 4 years now. I love it. For =
> a vertical it is great. I put up a 5 band, 2 element Lightning Bolt Quad =
> a couple of years ago, which is the best antenna I have ever used. =
> Besides the 5 resonant bands it will tuned 30,40,80. It is poor on 40 =
> and good on 30 and terrific on 80. I still use the Gap for 40 and it =
> performs extremely well on that band for some reason. If you have =
> limited space it is pretty hard to beat it for what it does.

Jeff,

For both of these fine antennas, there is a common principle: the more bands you tie together at a common feedpoint, the more likely you will encounter a low SWR on some other bands, since for any given frequency, the impedances of each antenna at that frequency are in parallel. Hence, even if most are sky high, a parallel combination of a couple of medium values can result in a low impedance overall. That is why the GAPS tend to work at 6 and/or 2 without having been designed to do so and apparently why the Lightning Bolt loads on some of the lower bands. No a vertical is a vertical, so the 6 and 2 meter patterns are predictable. However, the patterns of the Lightning Bolt on the lower bands below its design frequencies are not--hence, good some frequencies, others not.

May try to model the whole 5-band LB array someday to see what happens on all the ham bands.

-73-

LB, W4RNL

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: Larry East <LVE1@inel.gov>

Subject: [211] RE: Gap Vertical
Message-ID: <9511171633.AA17985@garnet.inel.gov>

On 17 November Bill Acito wrote:

> ... snip ...
> I've been hearing both ends of the spectrum on the Gap vertical,
> either it's fantastic or marginal. Someone told me the QST review
> on it wasn't all that great.
>
> Considering I don't really have anything invested in the
> Butternut, and have been thinking about the Gap, is it worth the
> upgrade? Will the halfwave, radial-less design out-perform the
> Butternutt? Is the Gap Titan really that good? Looking for
> theoretical or practical experience. Landlord restrictions keep
> the possibilities to a vertical for right now.
> ... snip ...

Well, here are my observations with my GAP -- the "big momma" version that covers 160/80/40/20M. This version is pretty big; 47 feet high and requires two sets of guys and three (I'm using 4) 57 foot long "counter poise" wires along the ground. It is also expensive -- about \$400 new. So far, it has withstood the winds here OK (I'm using 300 lb test UP proof rope as guys -- have had to tighten 'em up a few times). I got this model rather than the smaller Titan because: a) I had the room, b) I got it used (about one year old) for \$150 less than new price, and c) I wanted to give 160M a try.

I put it up last spring to replace an old Hygain 80-10M trapped vertical that was getting pretty beat up from all the wind here in South-Eastern Idaho. Unfortunately, I took the HyGain down before putting up the GAP so didn't make any direct comparisons. But my general impression is that the GAP works much better on 80, primarily because it is pretty "flat" over the whole band whereas the HyGain was very narrow. I had worked a few JA's with the HyGain on 80 CW, but could barely be heard in Salt Lake City (200 mi) on 75 SSB. With the GAP, my 75M signal into Salt Lake is a little better than a local ham using a 75M dipole up 40 feet. Haven't worked any 80M DX yet -- primarily because I've been concentrating on 40 and 30M QRP since putting it up. (This GAP model does not work on 30M -- see below.)

I recently put up a trapped inverted Vee for 15/30/40M, up 38 feet at the top and about 15 feet at the ends, and have done a lot of comparing of it and the GAP on 40. Received signal strengths on the GAP are usually at least equal to the inverted Vee, and improve as the skip distance gets greater. For example, east coast stations are about 2 S-units louder on the GAP (noise is also greater, but S/N is usually better with the GAP due to greater signal strengths). The few European stations I've heard on 40 were barely above the noise on the Vee but quite copyable on the GAP. There are some cases when signals are weaker on the GAP; for example, I could barely

hear Tuesday's VE7 Fox on the GAP but pulled him thru OK with the inverted Vee. The Vee is broad-side east and west, and signals from the south are always louder on the GAP regardless of distance.

I have tried the GAP on other bands (for which it was not designed); works great on 10M, but does not work worth crap on 15M or 30M -- even with a tuner. That's the reason for the inverted Vee; I decided to include 40M as well for comparison with the GAP.

So, those are my observations... it works quite well in my installation. Don't know about the Titan, but suspect that it would work OK as well. Whether it would work any better than the Butternut, I don't know. It probably would if the Butternut is ground mounted, but maybe not if it is up 15-20 feet. My HyGain, by the way, was up about 20 feet above the ground and had three "trapped" radials for 80/40/20/15/10M. It worked quite well on 40, 15 and 10 but seemed rather marginal on 80 (narrow bandwidth) and 20 (high SWR -- never seemed to be able to get it tuned right).

72, Larry W1HUE/7

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: "MIKE HERR" <mike_herr@imdgw.chinalake.navy.mil>
Subject: [215] Re: Handbook
Message-ID: <n1395519845.26222@imdgw.chinalake.navy.mil>

I've got no problem with the cost, more so the content. I feel the content has steadily gone down hill since the late 70's. I think they need more basic radio projects, ie, a set of projects to build a basic ham station, be it either hf or vhf. Also, the organization of the material hasn't seemed right for some time. Look at a late 60's handbook. You can find rapidly exactly what you want. Not so recently, although I think it is slowly getting better.

72
Mike

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: cebik@UTKVX.UTCC.UTK.EDU
Subject: [251] Re: HF Vertical Antennas
Message-ID: <Pine.PMDF.3.91.951118090010.543620767E-100000@utkvx.utk.edu>

On Fri, 17 Nov 1995, Richard H. Arland wrote:
> I am REALLY suspicious of the MFJ "no radials" vertical. In the
> pictures I have seen it resembles the Hi-Q antennas of the late 1960s

> and early 1970s. These had a ceramic capacity hat/coil arrangement that
> stuck out at 90 degrees from the vertical radiator. They worked, but
> not all that well (I had two in the Azores and my Hustler 5BTV beat
> them into the dirt!)

Rich

Your experience seems not to be unusual. In the 70s, when I had a 14AVQ up on the 2nd story roof, chimney mounted, with 4 radials for each band made from 4-wire rotor cable (1 wire in each length for each band), I worked a fellow in VA who was in despair over his multi-band short Yagi with apparent capacity hats bristling from each element. I suggested a roof-mounted vertical with drooping radials and heard from him that he was getting far better results. Verticals get a bum rap due to local noise and RF-eating shrubbery--a bit of elevation can do a world of good for them in both respects.

-73-

LB, W4RNL

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [214] RE: HF Verticals?
Message-ID: <n1395513867.52952@msmailgw1.arlut.utexas.edu>

Nick and antenna fans,

The often overlooked fact is if you have no radials, SOMETHING must be there to make up the other side of the circuit. The coax feed has two conductors, the center lead and the inside of the shield. Each must see an appropriate element to efficiently transfer power to (ultimately) the reflective layer of the ionosphere that carries it longer distances than the antenna can "see" from its own elevation. A shorter antenna does not have as good a radio horizon for its lowest angle to reach to give you the DX hop that is desirable.

The taller antennas or those having more radiating surface do the better jobs. Antennas with larger conductors have more bandwidth. These are basics. Also, traps made of coils and capacitors have a finite Q, and tend to limit bandwidth, and may have losses.

I believe the MFJ advertises it is about 12 feet tall. The Titan is 25 feet, and there you have a basic difference, one is going to have at least twice the radiating area of the other. The radiating parts do the work. The coils and caps and such of trap antennas are along to electrically lengthen the antenna,

but they do not have the physical area to contribute to the radiation.

Now Gap did a clever thing. At the bottom, they coiled up 33 more feet of radiator into a counterpoise, at a radius of 42 inches from the main vertical. Yet, it is in series with the vertical, and does resonate on 40M. It is insulated from the radial support rods that hold it in a horizontal plane. Thus for 40M, and perhaps 15M, the end of the radiator is over a quarterwavelength from the elevated feed point. Feeding a complex all band antenna in the center seems to be part of the quiet feature of the Gap. The coax is double shielded in the sense that before the feedpoint at the "gap", it has gone up inside the actual lower radiator tubing. This may be why these antennas pick up less electric field static.

To summarize: Base fed verticals need radials or a counterpoise system. Elevated feed verticals seem to give better results in receiving with better signal to noise, and seem to transmit a stronger signal from reports received. They may utilize a counterpoise to give further improvement in performance.

Even an elevated, or center fed vertical needs as much radiating surfaces as possible to get out well. Only a full length vertical dipole would have all the surface contributing to radiating. A shortened antenna is a compromise. An antenna that is half the length of another is even more of a compromise. There is no free lunch, (sorry). Many or all of the foreshortened verticals are nowhere near a "half wave". They are short verticals much like a mobile whip for HF with loading coils stuck on both ends, or traps decoupling some of the available length to get quarterwave resonance on a high band at the expense of not using as much of the antenna tubing area to radiate on that band. Some of these compromise antennas work pretty well in spite of themselves. Those that do tend to have the most length in use for any given band. Beware of the others, if you are considering a 12 foot antenna, you can do that with mobile mast parts and loading coils at much less cost than the commercial vertical of that length. Just INMHO. I realize that some folks have antenna restrictions; but try to get as much conductor radiating as you can. I have been pleased with my Titan, in that in a back yard it is hidden by a taller oak tree, and presents a clean vertical pipe profile in the part that sticks up over the one story roof that can be seen from the street. Unlike my dipoles, it is omnidirectional coverage. I don't have to lose time rotating a beam. Sometimes that lets you get a call in and work the DX while the "big guns" are getting into position!

Another reason I chose it was it was able to work the full bandwidth on all bands above 80, and it gave more than many antennas on 80. No trapped vertical that I have seen among the commercial offerings can do that.

From the appearance of the loading elements of the MFJ being at both ends of the vertical, they must be acting as end loading coils along with the capacity hats that are visible in the ads. It was clever of them to place these horizontally to keep the overall height as short as it is; but if you can get

more radiator up by placing an antenna under the eaves of the house, or other means of concealment, you might get out better than the 12 foot vertical. Each ham must do what he must do; but don't be aware of price only when you rate the antennas offered.

I like to make a chart with antenna models down one side, and the various features such as active length, traps or no, bands, bandwidth, etc., along the other side. Once you get them all on one page, the differences jump out at you, and you will see how some are better than others, depending on what is most important to you. I would hope bandwidth, and maximum radiating area are among the most important to you, for that will affect how well your antenna hears and gets out and ultimately your satisfaction with it.

Good hunting!
Stuart K5KVH
rohre@arlut.utexas.edu

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: Pat Taber <ptaber@logicraft.com>
Subject: [219] Re: I heard the FOX, (apologies Jeff)
Message-ID: <199511171849.NAA66509@nss2.CC.Lehigh.EDU>

>Does anyone have advice on how to effectively use the Notch filter of the 450?
> I could not make mine help in this case. Do I need a more narrow CW filter
>and one in both IF's?

If the 450 isn't too different from the 440, then this may apply:

The notch requires a smooth, slow hand. It is thin as a razor blade and you have to ease it over the top of the signal you want to eliminate or you'll never even hear it pass through. I don't know why that is. Personally I've had a lot better luck with the IF shift than the notch, though there are times I'd use both to really settle someone's hash ;-)

The absolute best thing I've used is a DSP audio filter. And depending on the model, they're good for SSB and CW! (Start leaving clippings in Santa's purse....) I have a Timewave DSP-59+ unit and I'm very enthusiastic about them. I know Brian, AE9K, also has one and likes it. I can't claim to have any experience with other models. The problem with DSP filters is that they're too expensive to buy a few and compare them.

I have used SCAF (switched-capacitance audio filters) and can't claim to like them very much. There was a time when they were the best of a bad situation, but they distort the audio too much for my taste. (No offence meant to SCAF owners out there. Reasonable people can hold different opinions.)

>>>==>PStJTT

```
=====
Patrick Taber                      Email: ptaber@logiccraft.com
Principal Software Engineer        Phone: (603) 880-0300
Logiccraft Information Services    Fax:   (603) 880-7229
22 Cotton Road
Nashua N.H. 03063                Also known as: KC1TD
```

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: "N100Q Tom R. @ MR01 17-Nov-1995 0923" <randolph@est.ENET.dec.com>
Subject: [201] re: More on "power caveat"
Message-ID: <9511171439.AA28916@us4rmc.pko.dec.com>

> Obviously, running it down to a few milliwatts gives a tremendous
> impedance mismatch between the filter and the amp.)

My understanding of transistor power amp output networks is that they DO NOT match the output impedance of the transistor at all, but simply transform the 50 ohm antenna load to a lower value that allows the transistor to make rated power with the available power supply voltage. The design rule is $V_{cc} \cdot V_{cc} / 2 \cdot P_o$, where V_{cc} is the supply voltage, and P_o is the power output you want. There's no transistor parameters involved at all.

> I don't know if all class C QRP rigs behave in
> exactly this fashion, but it would probably be fairly reasonable to
> expect them to, with the harmonic suppression getting somewhat worse
> as the power level decreases (and mismatch between the amp and filter
> increases).

I'd expect the harmonic suppression to change fairly little, which seems to be the result you got, as long as the load stays the same. I'd bet the change you measured is due more to change in conduction angle, i.e. more or less "on" time per cycle of RF, as the drive is changed.

-Tom R. N100Q randolph@est.enet.dec.com

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995
From: N5EM@aol.com
Subject: [220] Re: Re- RS12/13
Message-ID: <951117141406_109251337@emout05.mail.aol.com>

In a message dated 95-11-16 18:21:05 EST, you write:

>Instead of a set frequency, how about a set distance above the bottom band
>edge, and use that on RS10 and RS15 as well?

>72

>Mike WA6ARA

>

>

>

>

>

Not a bad idea. We ended up with 5 khz. above the bottom of the transponder on RS-12. How about other users checking out the same scenario on RS-15 and RS-10?

Ed

From qrp-1@lehigh.edu Sat Nov 18 14:47:00 1995

From: jlowman@iepsnet.com (Jim Lowman)

Subject: [224] Re: XYL,It's all in the approach

Message-ID: <199511171940.0AA130647@nss2.CC.Lehigh.EDU>

[snip]

>My XYL is familliar with this concept. Her first husband chased women.

>So she thinks that my being a ham is the best thing since sliced bread.

>When I am in my shack wrapping toroids,(those festive little red things as

>she calls them), she knows right where I am and what I am doing. She says

>that ham radio is a preferable alternative.

My wife and I just returned from San Francisco, celebrating our 25th anniversary. One of our

first dates, believe it or not, was Field Day! From that moment on she has always wanted to be a ham, and became KE6YBS in August. The code requirement, plus a busy teaching/administrative schedule, had kept her from the goal all of these years.

>My XYL goes with me to all the ham fests and just bought me a collapsable

>shopping cart that she pulls along. She pulls it so that I can make runs to

>the tables and keep my hands free.

The 1995 ARRL Southwestern Division Convention coincided nicely with the arrival of her new

callsign and ticket. She really enjoyed the event as much as I did. She bought a Yaesu FT-11R

with all the bells and whistles, a gain antenna for same, and the ARRL
General Class License
Manual. Looks like the bug has bitten. :-)

>This year Santa is bringing me a cmos III keyer, a solar panel regulator,
>and other ham goodies.

So far I have received an HTX-202 HT for 2M, and am getting a belated
anniversary gift of a
Bencher iambic paddle of my choice, to go with the Index Labs QRP+ I bought
a couple of
months ago, when we go by HRO the first of the month.

>New England QRP Club, information
>available on request by sending me a
> S.A.S.E. or via E-mail.

P.S. Ernie-can you e-mail some details/application to me for NEQRP?

Jim - KF6CR